

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## **mikrozid® wipes**

Version                      Revision Date:  
05.16                        26.08.2022

Date of last issue: 09.04.2022

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### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product identifier**

Trade name                      : mikroqid® wipes  
Unique Formula Identifier      : 5800-POVS-N00A-TKK9  
(UFI)

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Sub-                      : Disinfectants and general biocidal products  
stance/Mixture

#### **1.3 Details of the supplier of the safety data sheet**

Producer                              : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

Supplier                                : Schülke & Mayr UK Ltd.  
Cygnet House  
1, Jenkin Road, Meadowhall  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
Telefax: +44 114 254 35 01  
mail.uk@schulke.com

E-mail address of person        : Application Specialists  
responsible for the                +49 (0)40/ 521 00 666  
SDS/Contact person              AD@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

#### **1.4 Emergency telephone number**

Emergency telephone num-        : Emergency medical information: 8am-10pm (seven days)  
ber                                      contact National Poisons Information Centre,  
Beaumont Hospital, Dublin 9 DOV2NO  
+353 (0)1 8092166

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### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3                      H226: Flammable liquid and vapour.

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Eye irritation, Category 2

H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements : P102 Keep out of reach of children.

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ eye protection.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

#### Hazardous components which must be listed on the label:

propan-1-ol

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Has a degreasing effect on the skin.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Aqueous, alcohol containing solution on non-woven

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
propan-1-ol	71-23-8 200-746-9 603-003-00-0 01-2119486761-29-XXXX	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system)	>= 30 - < 50
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 20 - < 30

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : If symptoms persist, call a physician.
- In case of skin contact : Wash with water and soap as a precaution.  
If skin irritation persists, call a physician.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
Obtain medical attention.
- If swallowed : If accidentally swallowed obtain immediate medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Treat symptomatically.
- Risks : Causes serious eye irritation.  
May cause drowsiness or dizziness.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Dry powder  
Alcohol-resistant foam

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Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

Unsuitable extinguishing media : Foam  
Do NOT use water jet.

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.

Hazardous combustion products : No hazardous combustion products are known

### **5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition.  
Avoid contact with eyes.

### **6.2 Environmental precautions**

Environmental precautions : No special environmental precautions required.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Use mechanical handling equipment.

### **6.4 Reference to other sections**

see Section 8 + 13

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling : Wear personal protective equipment.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Hygiene measures : Keep away from food and drink.

### **7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Keep container tightly closed. Keep away from direct sunlight.  
Recommended storage temperature: 15 - 25°C

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Advice on common storage : Do not store together with oxidising agents.

### 7.3 Specific end use(s)

Specific use(s) : none

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-1-ol	71-23-8	OELV - 8 hrs (TWA)	100 ppm	IE OEL
Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body				
ethanol	64-17-5	OELV - 15 min (STEL)	1,000 ppm	IE OEL

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
propan-1-ol	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Workers	Inhalation	Long-term systemic effects	268 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1723 mg/m <sup>3</sup>
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Workers	Inhalation	Long-term systemic effects	950 mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
propan-1-ol	Fresh water	6.83 mg/l
	Soil	1.49 mg/kg
	Marine sediment	2.75 mg/kg
	Fresh water sediment	27.5 mg/kg
	Marine water	0.983 mg/l
	ethanol	Fresh water
Marine water		0.79 mg/l
Fresh water sediment		3.6 mg/kg
Soil		0.63 mg/kg
Marine sediment		2.9 mg/kg
Sewage treatment plant		580 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Hand protection

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Remarks	:	Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 Min., layer thickness: 0.40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0.70 mm) made by KCL or gloves from other manufacturers offering the same protection.
Respiratory protection	:	No personal respiratory protective equipment normally required.
Protective measures	:	Avoid contact with skin and eyes.

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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Physical state	:	Aqueous, alcohol containing solution on non-woven
Colour	:	colourless
Odour	:	alcohol-like
Odour Threshold	:	not determined
Melting point/freezing point	:	< -5 °C of the active solution
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 80 °C of the active solution
Flammability	:	Sustains combustion
Upper explosion limit / Upper flammability limit	:	17.5 %(V) Raw material
Lower explosion limit / Lower flammability limit	:	2.1 %(V) Raw material
Flash point	:	27 °C Method: DIN 51755 Part 1 of the active solution
Auto-ignition temperature	:	425 °C Raw material
pH	:	Not applicable
Viscosity Viscosity, dynamic	:	No data available
Flow time	:	< 15 s at 20 °C Method: DIN 53211 of the active solution

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Solubility(ies)	
Water solubility	: (20 °C) completely soluble
Partition coefficient: n-octanol/water	: Not applicable
Vapour pressure	: ca. 50 hPa (20 °C) of the active solution
Density	: ca. 0.89 g/cm <sup>3</sup> (20 °C) of the active solution
Relative vapour density	: No data available

### **9.2 Other information**

Explosives	: No data available
 Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Self-ignition	: No data available
 Metal corrosion rate	: None reasonably foreseeable.
Evaporation rate	: No data available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : None reasonably foreseeable.

### **10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

### **10.5 Incompatible materials**

Materials to avoid : Strong acids and oxidizing agents

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

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### **SECTION 11: Toxicological information**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Not classified based on available information.

##### **Components:**

###### **propan-1-ol:**

Acute oral toxicity	: LD50 (Rat): ca. 8,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 33.8 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit): 4,032 mg/kg Method: literature value

###### **ethanol:**

Acute oral toxicity	: LD50 (Mouse): 8,300 mg/kg
Acute inhalation toxicity	: LC50 (Mouse): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	: LD50 (Rabbit): 20,000 mg/kg

##### **Skin corrosion/irritation**

Not classified based on available information.

##### **Components:**

###### **propan-1-ol:**

Species	: Rabbit
Result	: No skin irritation

###### **ethanol:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

##### **Serious eye damage/eye irritation**

Causes serious eye irritation.

##### **Product:**

Method	: Expert judgement
Result	: irritating
Remarks	: The toxicological data has been taken from products of similar composition.



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### Components:

#### **propan-1-ol:**

Species : Rabbit  
Result : Irreversible effects on the eye

#### **ethanol:**

Method : OECD Test Guideline 405  
Result : Eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### Components:

#### **propan-1-ol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

#### **ethanol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **propan-1-ol:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

#### **ethanol:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Result: Non mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **propan-1-ol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

#### **ethanol:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **propan-1-ol:**

Effects on foetal development : Species: Rat  
Application Route: inhalation (vapour)  
General Toxicity Maternal: NOAEL: 8.6 mg/l

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

#### **ethanol:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight

Reproductive toxicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

### **STOT - single exposure**

May cause drowsiness or dizziness.

### **Product:**

Remarks : May cause drowsiness or dizziness.

### **Components:**

#### **propan-1-ol:**

Assessment : May cause drowsiness or dizziness.

#### **ethanol:**

Remarks : No data available

### **STOT - repeated exposure**

Not classified based on available information.

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### Components:

#### **propan-1-ol:**

|| Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **ethanol:**

|| Remarks : No data available

### **Repeated dose toxicity**

#### Components:

#### **ethanol:**

|| Species : Rat  
|| NOAEL : 1,730 mg/kg  
|| LOAEL : 3,160 mg/kg  
|| Application Route : Oral  
|| Exposure time : 90 d

#### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **Further information**

#### Product:

Remarks : No data is available on the product itself.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### Components:

#### **propan-1-ol:**

|| Toxicity to fish : LC50 (Fish): 3,200 mg/l  
Exposure time: 96 h

|| Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,642 mg/l  
Exposure time: 48 h  
Method: DIN 38412

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Toxicity to algae/aquatic plants : NOEC (Chlorella pyrenoidosa (algae)): 1,150 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 68.3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

### **ethanol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l  
Exposure time: 72 h

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6  
Remarks: of the active solution

### **Components:**

#### **propan-1-ol:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 75 %  
Exposure time: 20 d

#### **ethanol:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 5 d  
Method: OECD 301D / EEC 84/449 C6

## **12.3 Bioaccumulative potential**

### **Components:**

#### **propan-1-ol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.88  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0.2 (25 °C)  
Method: OECD Test Guideline 117

#### **ethanol:**

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Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0.14  
Method: Calculated value

### 12.4 Mobility in soil

#### Components:

##### **propan-1-ol:**

Mobility : Remarks: Mobile in soils

##### **ethanol:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : This product has no known ecotoxicological effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.

Contaminated packaging : Take empty packaging to the recycling plant.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

Z11091\_02 ZSDB\_P\_IE EN  
0087421632

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**ADR** : UN 3175  
**IMDG** : UN 3175  
**IATA** : UN 3175

### 14.2 UN proper shipping name

**ADR** : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.  
(propan-1-ol, ethanol)  
**IMDG** : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.  
(propan-1-ol, ethanol)  
**IATA** : Solids containing flammable liquid, n.o.s.  
(propan-1-ol, ethanol)

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADR</b>	: 4.1	
<b>IMDG</b>	: 4.1	
<b>IATA</b>	: 4.1	

### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 40  
Labels : 4.1  
Tunnel restriction code : (E)

**IMDG**  
Packing group : II  
Labels : 4.1  
EmS Code : F-A, S-I

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 448  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable solid

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 445  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable solid

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : no

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### **14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

### **14.7 Maritime transport in bulk according to IMO instruments**

Remarks : Transport in accordance to special provision 216

## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Registration number : Private area and public health area disinfectants and other biocidal products  
Food and feed area disinfectants:  
PCS No.97227

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 46.70 %

Regulation (EC) No. 648/2004, as amended : Other constituents: Perfumes

### **Other regulations:**

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Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

### **The components of this product are reported in the following inventories:**

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

### **15.2 Chemical safety assessment**

Exempt

## **SECTION 16: Other information**

### **Full text of H-Statements**

H225	:	Highly flammable liquid and vapour.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.

### **Full text of other abbreviations**

Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
STOT SE	:	Specific target organ toxicity - single exposure
IE OEL	:	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
IE OEL / OELV - 8 hrs (TWA)	:	Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL)	:	Occupational exposure limit value (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** 

## **mikroZid® wipes**

Version  
05.16

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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

#### **Classification of the mixture:**

Flam. Liq. 3	H226
Eye Irrit. 2	H319
STOT SE 3	H336

#### **Classification procedure:**

Based on product data or assessment
Based on product data or assessment
Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.